SBR No. 47/17-18
DATED 27/6/2017

Original/Duplicate/Triplicate

CONTRACT CERTIFICATE

(For Other Works)

EE/ELE/Y/BR.No. 47/17-18

No. 1st & Final Bill

Date.....2010 Dt. 27/6/17

Division: **Electricals (Yelahanka)** Sub-Division: **Electricals**

Bill Received No. Dated Divisional Cash Book Voucher No..... Dated.....
Sub Divisional **Job Code :-001-17-000039**

Schedule Docket No. Head of Account : P 3089 7CMC and 1TMC in BBMP area

D.R.No. :

Name of Work :Providing and Supplying Electrical Fittings to Yelahanka Lake of Yelahanka Subdivision Ward No 1.

Name of Contractor and Full Address:**Technical Maneger-2, KRIDL,**

Reference to Agreement No:EE/Ele/YZ/WO/21 /17-18 Date:31-05-2017

Certified that the measurements were taken by me on 27/6/17 and recorded of Pages 311401 to 416 of measurement Book No. 3115/17-18 and that the work is satisfactorily executed.

Contractor

Officer-in-charge of work

Assistant Executive Engineer
Byata:Yanapura Sub-division
KRIDL, BBMP, Bangalore

Certified that the measurement were taken by me on 27/6/17 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Sub-Division Officer

Asst. Executive Engineer (Elec.)
Yelahanka Sub-Division
Bruhat Bangalore Mahanagara Palike

II Memorandum of Payment

1)	Total value of work done or supplies made as per account within	Bill = 59.38.918=00
2)	Deduct amount to be held in reserve being .....percent Rs.....	IT 2% 1.18.778=00
3)	" Balance	VAT 4% 2.37.557=00
4)	Deduct Payment:	LWC 1% 59.389=00
	a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D. No..... Amount adjusted towards cash advance recovery of	FSD 7.5% 4.45.419=00
	b) Payments Now made { cost store or other material supplied. recovery of amount creditable to this/other work Amount paid on this bill Cheque / Cash.	CBFO 1% 5939=00
		deductions = 8.67.082=00
		cheque = 50.71.836=00
5)	Balance being unpaid value of work done held in reserve.	
6)	Deduct cash advance made on the Office cash Book Voucher No..... dated.....less adjustments.	
7)	Net amount due to or from Contractor unadjustments items.	
8)	Advance to Contractor for materials brought to site (as detailed) within.	
9)	Value of Government materials supplied.	
	Total amount adjusted -	

Assistant Executive Engineer
Byata:Yanapura Sub-division
KRIDL, BBMP, Bangalore

Contractor's Signature

Received Rs..... (in words).....
.....
by cash and by adjustment of Payment as per memorandum
(in final settlement of all demands)

(For use in the Office)

Witness
1.
2.

Assistant Executive Engineer
Byata:Yanapura Sub-division
KRIDL, BBMP, Bangalore

Dated Signature of Contractor
Paid by me by Cheque No. Dated.....
Cash Rs.....
Dated.....
Initials of Officer making payment

ಲೆಕ್ಕಶೀರ್ಷಿಕೆ P3089. 7CMC 1TMC grants
ರೂ: 59.38.918=00 Stamp ಮಾಡಿ ಸ್ವೀಕರಿಸಿದೆ
ರೂ: 50.71.836=00 ನೀಡಬಹುದಾಗಿದೆ
ರೂ: 8.67.082=00 ಹೊಂದಾಣಿಕೆ ಮಾಡಿದೆ

ಲೆಕ್ಕ ಅಧೀಕ್ಷಕರು

Executive Engineer
ಕಾ.ಪಾ.ಅ.(ವಿ) ಯಲಹಂಕ ವಲಯ

Sl no	Description of item	Unit
	Name of Work : Providing and Supplying Electrical Fittings to Yelahanka Lake of Yelahanka Subdivision Ward No 1	
1	Fabricating, supplying and erection of ...Mtrs long hot dip Galvanized Conical pole with BSEN 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangements, including suitable boards, Bakelite sheet and MCBs as per IS specifications suitable to withstand the wind speed of 47 m/sec for .....Mtrs pole in single section and single joint welded as per IS 9595/IS 10178AWS having dimensions bottom .....mm, top....mm with 3mm thick, suitable base plate and 4Nos of ..... long J bolts along with template and the pole shall be hot dip galvanized in single dipping with not less than 65micron as per ASTM-A123 and 153 etc.,(excluding foundation) as per drawing appended.4 meters - Top 75mm and bottom 115 mm dia	Each
2	LED Street light.Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminare > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools.	
	LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED source manufacture. Suitable for B1/B2 Roads as per IS 1944 Part I & Part II.LED Streetlight 24watts	Nos
3	Providing Rcc Pole pedstal of Size 0.3x0.3x0.8 Mtrs Including digging of pit, tor steel, anchoring bolts nuts ,templates ,Centring,1;4;8base concrete,1;2;4pedestal concrete and etc coplete as per the data sheet enclosed	Nos
4	Supplying of 1.1KV grade Aerial Bunched Cable Stranded & Compacted Aluminum Phase Conductor, and Stranded Messenger Conductor with all aluminum Alloy, Phase Conductor is insulated with XLPE Compound, insulated Messenger with specified IS-14255:1995 & confirming to GTP of GROUP-A. 3 X 25 + 1 X 25 + 1 X 16 SQ.MM	Per Mt
5	Stringing of 1.1kv LT Arial Bunched Cable, BESCOM SR	Per Mt
6	Dead end clamp / Anchor clamp assembly 25 to 95 sqmm bare messenger, Bescom SR of 2010-11, Page no 16 o 34, Sl no 51.16.	Each
7	Erection of Anchor Clamp - 25 to 95 Sq. mm bare messenger. Bescom SR of 2010-11, Page No 21 of 27, Sl no 26.7.	Each
8	Supplying and fixing of Twin Dial electro mechanical timer (without contactor) using necessary bolts, nuts and washers etc.. Group A, PWD SR 2007-08,	Each
9	Supply and fixing of 4-pole power contactor with NO/NC contacts on existing wood / panel board using necessary bolts, nuts, washers and wiring etc., complete. d) 100-125 Amps	Each
10	Supplying and fixing miniature circuit breakes on exisiting MCB distribution boards using necessary fixing materials and wiring complete as required. b) 40-63Amps DP,2. Group 'A'	Each
11	f)40-63Amps TPN, Group A	Each
12	Open Conduit Systeme: Supplying heavy gauge PVC conditpipe,..... dia confirming to IS 2509 with suitable size bends,junction boxes, adhesibve paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall stone structure or plug incase of brick walls and cement plastering damaged portionusing heavy gauge saddles at an interval of 700mm using NF screwsc)32mm dia 2.5mm thick	Per M
13	b)25mm dia 2mm thick	Per M
14	Wiring for lighting/power circuit using one of PVC insulated 1100v grade, multis and **Copper** conductor single core cable in open or consealed system of wiring I Group A Materials.g)16 sqmm	Per M

Previous		Present Measurement			Total Upto Date		Remarks
Qty.	Cost	Qty.	Rate	Amount	Qty	Cost	
		214	7236.00	1548504.00	214	1548504.00	
		214	6912.00	1479168.00	214	1479168.00	
		224	1080.00	241920.00	224	241920.00	
		165	177.00	29205.00	165	29205.00	
		165	10.30	1699.50	165	1699.50	
		4	140.00	560.00	4	560.00	
		1	85.00	85.00	1	85.00	
		20	4200.00	84000.00	20	84000.00	
		15	9915.00	148725.00	15	148725.00	
		15	1093.00	16395.00	15	16395.00	
		1	1936.00	1936.00	1	1936.00	
		600	100.00	60000.00	600	60000.00	
		0	70.00	0.00	0	0.00	
		50	132.00	6600.00	50	6600.00	

15	1.5 sqmm	Per Mtr
16	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia	Each
17	Supplying and fixing of Procelain fuse channel with cut out on exisiting wooden/panel using necessary nuts, bolts and washers etc., complete.d) 100 Amps	Each
18	Supplying and fixing of class A (medium duty) GI pipe of wall thick ness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class. c) 65mm	Per Mtr
19	Fabricating supplying and mounting MS box made out... SWG suitable lfor floor/wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size cdlamps with mecessary cable entry pipe with gland and box should be finished with 2 cdoats of red oxide primer paint and finally finished with approved colour enameled metal pain etc., complete. b)16 swg	Sqcm
20	Supplying..... amps rated 3phase with neutral bus bar using requiemed capacity electrolytic aluminium strips covered with heat shrinkable couloured PVC sleeve, mounted on phenolic/FRP/DMC insulator which are mounted on powder coated 40x6mm M.S. flat frame work in existing panel board. The bus bar shall gave suitable holes for termination of incoming and outgoing cables as per IS specification with necessary botls, nuts and washers etc., complete.b)250Amps 4X30X10mm Alluminium Strips	Per Mtr
21	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. And M.S. flat... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. a)40X40X6mm	Per Mtr
22	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics) THREE POLE 100Amps 25kA.	Each
23	Supplying and running of GI/Copper strips for grounding connections, using necessary fixing materials as required. II Copper Strip. B)25X3mm	Per Mtr
24	Supplying, and fixing of Hot dip Galvanized M.S.Bracket suitable for out door luminaries and mounted on Octagonal pole using necessary bolts, nuts etc., complete.Single Arm Bracket with 1000mm Standard 40/50MM dia	each
25	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc.16 Sq mm	each
26	Supplying of recessed/surface mount aesthetic Square / rectangular modular luminary made out of single piece powder coated CRCA sheet steel accommodating all electrical accessories like electronic ballast suitable to operate on 230V 50Hz AC supply with 18Watts PLL-compact fluorescent lamp, pre-wired upto terminal block with bright anodized aluminum reflector & P5 paralite louvers with spring loaded plastic toggles.2x18Watts	Each
27	Supplying High pressure ..... Metal halide flood light luminary suitable for use with high pressure metal halide lamp with integrated control gear. The fitting shall be non corrosive high pressure die cast aluminum housing powder coated with toughened and heat resistant glass with low copper content black/grey powder coated paint finish with EPDM gasket. Reflector shall be made of high purity pre-anodized aluminum. Cable entry through a cable gland with toggle clips. IP 65 protection for both and optical and electrical compartment. Bottom cover may be with polycarbonate / tempered / toughened glass. Luminaire efficiency should be > 60% and ambient temperature > 35 deg C. High intensity discharge Electro magnetic ballast with copper winding of Octocyclic winding coil. Class H insulated dual coated copper wire. Compliance to IEC 61347-2-9 Safety and IEC 60923- performance. Winding temperature for HID ballast tw = 130 deg C and temperature rise ?T - 70 deg C. Luminaire shall be suitable to operate on 230/250Voance at the sight site location with minimized minimal tools. for opening front hingeable glass.facturing defect working under standard electrica	Each

		3200	15.90	50880.00	3200	50880.00	
		5	2727.00	13635.00	5	13635.00	
		30	360.00	10800.00	30	10800.00	
		12	585.00	7020.00	12	7020.00	
		421354	0.33	139046.82	421354	139046.82	
		5	2942.00	14710.00	5	14710.00	
		30	263.00	7890.00	30	7890.00	
		5	4044.00	20220.00	5	20220.00	
		295	77.00	22715.00	295	22715.00	
		214	1919.00	410666.00	214	410666.00	
		4	280.00	1120.00	4	1120.00	
		10	1724.00	17240.00	10	17240.00	
		41	6699.00	274659.00	41	274659.00	

		3200	15.90	50880.00	3200	50880.00	
		5	2727.00	13635.00	5	13635.00	
		30	360.00	10800.00	30	10800.00	
		12	585.00	7020.00	12	7020.00	
		421354	0.33	139046.82	421354	139046.82	
		5	2942.00	14710.00	5	14710.00	
		30	263.00	7890.00	30	7890.00	
		5	4044.00	20220.00	5	20220.00	
		295	77.00	22715.00	295	22715.00	
		214	1919.00	410666.00	214	410666.00	
		4	280.00	1120.00	4	1120.00	
		10	1724.00	17240.00	10	17240.00	
		41	6699.00	274659.00	41	274659.00	

28	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100Volts as per IS-694:1990 & confirming to GTP of GROUP-A3C X 2.5Sq.mm	
29	Supply, installation, testing and commissioning of compact Wall mount speaker with power handling up to 40Watt RMS 0/100volt@ 1456 ohms single channel. selectable taping Specs: Power handling : 15 to 30 watt Frequency response : 80 Hz t0 18khz Spl:	Nos
30	Supply, installation, testing and commissioning of booster amplifier with power handling of 250 to 300 watt RMS 4ohms Dual and 100/70 volt output on bridge mode single channel Rack mountable Specs: frequency response : 20 htz to 20khtz	Nos
	Total Rs	
	Add KRIDL Charges 9.1%	
	Grand Total Rs	

Certificate: 1. Certify that theThe Above said Work has been carreidout satisfactorily

Asst. Executive Engineer (Elec.)
Yelahanka Sub-Division
Bruhat Bangalore Mahanagara Palike

		5674	86.30	489666.20	5674	489666.20	
		46	6890.00	316940.00	46	316940.00	
		1 (3)	27550.00	27550:00 82650.00	1 (3)	27550:00 82650.00	
			5443554=70	5498655.52		5498655.52	5443554=70
			495363:00	500377.65		500377.65	495363:00
				5999033.17		5999033.17	
				59,38,917=70		59.38.917=70	